California Content Standards

This lecture, "Waves in Nature: Lasers to Tsunamis and Beyond supports the following standards:

6th Grade Physical Sciences: Heat -Thermal Energy

Students know energy can be carried from one place to another by heat flow or by waves, including water, light and sound waves, or by moving objects.

High School Physics: Waves –

Waves have characteristic properties that do not depend on the type of wave. As a basis for understanding this concept:

- Students know waves carry energy from one place to another.
- Students know radio waves, light, and X-rays are different wavelength bands in the spectrum of electromagnetic waves whose speed in a vacuum is approximately 3Å~108 m/s (186,000 miles/second).

Investigation and Experimentation:

Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding his concept, and to address the content of the other four strands, students should develop their own questions and perform investigations.